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En Route System Modifications

Overview

En Route System Modifications include efforts to refresh the Display System Replacement (DSR) commercial off-the-shelf components when they become obsolete or experience supportability or maintainability problems. The DSR receives aircraft track and other data from the Host computer and formats it for display to En Route controllers. DSR component replacement is an on-going effort to maintain and sustain the primary display processing system in use today by En Route controllers at all Air Route Traffic Control Centers (ARTCC). DSR hardware and software component technology refresh efforts are prioritized based on sustainment analysis and En Route evolution requirements received from Air Traffic and Air Facilities. Where possible, technology refresh activities are planned in conjunction with other En Route initiatives (i.e., Host and Oceanic Computer System Replacement (HOCR), En Route Automation Modernization (ERAM), etc.) to optimize costs and reduce implementation impacts to the ARTCCs.

Features

Technology refresh of existing DSR baselined components is necessary to: 1) maintain or exceed the existing performance and availability of the system (e.g., main display monitor, storage system, etc.), 2) provide infrastructure upgrades to support new and planned En Route automation tools (Controller Pilot Data Link Communications, Center TRACON Automation System, etc.), and 3) ensure the sustainment, support and maintainability of the overall En Route display system by keeping current with industry technology upgrades and market trends.

Scope

All changes to the DSR baseline are deployed nationally via the En Route change control process. En Route systems are deployed at 20 ARTCCs, the William J. Hughes Technical Center, and the FAA Academy.

Schedule

En Route System Modifications are planned as follows:

Storage System: 2002-2008

Main Display Monitor (R Position) & VEM/PEM Relocation: 2002-2004

D Position Processor: 2004-2005

R Position Processors & Display Generator: 2005-2007

Communications Networks: 2006-2008

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Page Last Updated: February 21, 2003